

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Rust Inhibiting Primer
Product Use Description:	Water-borne corrosion-inhibiting primer for metal roofing
Manufacturer:	NanoTech Materials, Inc. 21401 Park Row Drive #360 Katy, TX 77449
Email:	info@nanotechmaterials.com
Telephone:	1-(888) 296-6266

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids:	Category 1
Serious eye damage:	Category 1
Skin sensitizations:	Category 1
Specific target organ toxicity:	Category 1

GHS Label Elements

Hazard Pictograms:



Signal Word:	Warning
Hazard Statements:	May cause an allergic skin reaction.

Precautionary Statements

Prevention:	Avoid breathing dust/fume/gas/mist/vapors or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection during application and use.
Response:	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazards Not Classified:	None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of:

Water:	>30 wt%
Phenolic-Modified Alkyd Resin:	10 - 40 wt%

Aluminum Silicate:	10 - 20 wt%
Zinc Phosphate:	5 - 25 wt%
TiO₂ Pigments:	<10 wt%
Glycol Ether EB:	<6 wt%
Proprietary Ingredients:	<12 wt%

4. FIRST-AID MEASURES

Ingestion:	Treat symptomatically. Get medical attention.
Inhalation:	Remove exposed person to fresh air if adverse effects are observed.
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation or rash occurs: Get medical attention. Launder contaminated clothing before reuse.
Eye Contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses.
Most important symptoms/effects, acute and delayed	
Symptoms:	See section 11.
Indication of immediate medical attention and special treatment needed	
Treatment:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) extinguishing media	
Suitable extinguishing media:	CO ₂ , dry chemical, foam, water spray, water fog.
Unsuitable extinguishing media:	Not determined.
Specific hazards arising from the chemical:	See section 10 for additional information. Material will not burn until water has been evaporated. Container may rupture on heating.
Special protective equipment and precautions for firefighters	
Special firefighting procedures:	No data available.
Special protective equipment for firefighters:	Wear full protective fire-gear including self- containing breathing apparatus operated in the positive pressure mode with full face-piece, coat, pants, gloves and boots.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. See Section 8 of the SDS for Personal Protective Equipment. Ventilate area if spilled in confined space or other poorly ventilated areas. Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations.
Methods and material for containment and cleaning up:	Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycling and/or disposal. Residual liquid can be absorbed on inert material. Wash the area with soap and water. Spilled liquid and dried film are slippery. Use care to avoid falls.

Environmental Precautions: Avoid release to the environment. Do not contaminate water sources or sewers. Environmental managers must be informed of all major spillages. Prevent further leakage or spillage if safe to do so.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Launder contaminated clothing before reuse.

Avoid contact with eyes and prolonged or repeated contact with skin. Avoid breathing mist or vapors. When using, do not eat, drink or smoke. Stir well before use. Keep containers closed when not in use. Minimize contact with air to reduce contamination with mold, fungus, or other organisms which could cause decomposition or spoilage. Wash thoroughly after handling.

Maximum Handling Temperature: Not determined.

Conditions for Safe Storage, Including Any Incompatibilities: Store away from incompatible materials. See Section 10 for incompatible materials. Keep from freezing. Do not store in open, unlabeled or mislabeled containers.

Maximum Storage Temperature: Not determined.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits: None of the components have assigned exposure limits.

Appropriate Engineering Controls: Use material in well-ventilated areas only. Adequate ventilation should be provided so that exposure limits are not exceeded. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

General Information: Use personal protective equipment as required.

Eye/Face Protection: If contact is likely, safety glasses with side shields are recommended.

Skin Protection

Hand Protection: Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur wear chemically protective gloves. Suitable gloves can be recommended by the glove supplier.

Other: Gloves, coveralls, apron, boots as necessary to minimize contact. Do not wear rings, watches or similar apparel that could entrap the material.

Respiratory Protection: Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, a respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

Hygiene Measures: Observe good industrial hygiene practices. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state:	Liquid
Form:	Liquid
Color:	White or black
Odor:	Slight odor
Odor threshold:	No data available.
pH:	Not available.
Freezing point:	Approximately 0 °C
Boiling point:	212 °F
Flash point:	N/A
Evaporation rate:	N/A
Flammability (solid, gas):	N/A
Upper/lower limit on flammability or explosive limits:	N/A
Flammability limit - upper (%):	N/A
Flammability limit - lower (%):	N/A
Explosive limit - upper (%):	N/A
Explosive limit - lower (%):	N/A
Vapor pressure:	17 mm @20 °C
Vapor density:	0.62
Relative density:	1.35
Solubility(ies)	
Solubility in water:	Miscible with water
Solubility (other):	N/A
Partition coefficient (n-octanol/water):	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity:	Slightly viscous
Other information	
Bulk density:	No data available.
VOC:	<1%
Percent solid:	Approximately 50 - 70 wt%
Percent volatile:	Approximately 30 - 50 wt%

10. STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.

Possibility of Hazardous Reactions:	Will not occur.
Conditions to Avoid:	Do not freeze.
Incompatible Materials:	Strong oxidizers
Hazardous Decompositions Products:	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, nitrogen oxides and other products of incomplete combustion. Irritating and toxic substances may be emitted upon combustion, burning or decomposition of dry solids.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation:	Inhalation of high concentrations may cause headache, nausea, and dizziness.
Ingestion:	May cause irritation of the respiratory tract and CNS effects such as dizziness, headaches, nausea and narcosis.
Skin Contact:	Prolonged contact may cause irritation and/or redness.
Eye Contact:	Moderate irritation, including redness, swelling, pain, tearing and hazy vision. May cause irritation, discomfort, reddening and tearing.

Information on toxicological effects

Acute Toxicity

Oral: Product:	Not classified for acute toxicity based on available data.
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Specified substance(s)

(1) TITANIUM DIOXIDE:	LD 50 (Rat): >10,000 mg/kg
Octadecanoic acid:	LD 50 (Rat, No data available): >2,000 mg/kg
Octamethylcyclotetrasiloxane:	LD 50 (Rat): >4,800 mg/kg
Dermal: Product:	Not classified for acute toxicity based on available data.

Specified substance(s)

Acute Toxicity

Oral: Product:	No data available.
Dermal: Product:	No data available.
Inhalation: Product:	No data available.
Skin Corrosion/Irritation: Product:	No data available.
Serious Eye Damage/Eye Irritation: Product:	No data available.
Respiratory Sensitization:	No data available.
Skin Sensitization:	Classification: May cause sensitization by skin contact. (Literature)
Specific Target Organ Toxicity – Single Exposure:	No data available.
Aspiration Hazard:	No data available.
Other Effects:	No data available.
Chronic Effects – Carcinogenicity:	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:	No carcinogenic components identified.
U.S. National Toxicology Program (NTP) Report on Carcinogens:	No carcinogenic components identified.
U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):	No carcinogenic components identified.
Germ Cell Mutagenicity:	No data available.
Reproductive Toxicity:	No data available.
Specific Target Organ Toxicity - Repeated Exposure:	No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Fish:	No data available.
Aquatic Invertebrates:	No data available.
Toxicity to Aquatic Plants:	No data available.
Toxicity to Soil Dwelling Organisms:	No data available.
Sediment Toxicity:	No data available.
Toxicity to microorganisms:	No data available.

Persistence and Degradability

Biodegradation:	No data available.
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Bioaccumulative Potential

Bioconcentration Factor (BCF):	No data available.
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Mobility:	No data available.
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Other Adverse Effects:	No data available.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:	Treatment, storage, transportation and disposal must be in accordance with all applicable local, state and federal regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations.
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14. TRANSPORT INFORMATION

DOT:	Not regulated if container is of 119-gallon capacity or less.
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Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transport organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Review classification requirements before shipping materials at elevated temperatures.

15. REGULATORY INFORMATION

U.S. Federal Regulations

- **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- **SARA SECTION 313**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name CAS-No.

sec-Butanol 78-92-2

- **TOXIC SUBSTANCES CONTROL ACT**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States: No TSCA components exist in this product.

U.S. State Regulations

- **NEW JERSEY RIGHT-TO-KNOW**

The following hazardous materials are listed:

Chemical Name CAS-No.

sec-Butanol 78-92-2

Ethylene Glycol Monobutyl Ether 111-76-2

- **PENNSYLVANIA RIGHT-TO-KNOW**

The following hazardous ingredients are present:

Chemical Name CAS-No.

Ethylene Glycol Monobutyl Ether 111-76-2

sec-Butanol 78-92-2

- **MASSACHUSETTS RIGHT-TO-KNOW**

The following hazardous materials are listed:

Chemical Name CAS-No.

sec-Butanol 78-92-2

Ethylene Glycol Monobutyl Ether 111-76-2

- **CALIFORNIA PROPOSITION 65 CARCINOGENS**

Warning: The following ingredients present in the product are known to the state of California to cause cancer:

No Proposition 65 Carcinogens exist in this product.

- **CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS**

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards:

No Proposition 65 Reproductive Toxins exist in this product.

International Regulations

- **CANADIAN WHMIS:** This SDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

- **WHMIS Class:** B2,D1B,D2B

- **Chemical Inventories Australia inventory (AICS):** Not Determined

- **Canada inventory (DSL):** Not Determined

- **Japan Inventory (ENCSC):** Not Determined

- **China Inventory (IECSC):** Not Determined

- **Korea Inventory (KECI):** Not Determined

- **New Zealand (NZIoC):** Not Determined

- **Philippines (PICCS):** Not Determined

- **United States Inventory (TSCA 8b):** All components are listed or exempted.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3. Note that the information in this section is based in large part on phenolic modified alkyd resin present at < 40 wt% of final solution.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

HMIS Hazard ID

Health	1
Flammability	1
Physical Hazards	0

Hazard rating:
 0 – Minimal
 1 – Slight
 2 – Moderate
 3 – Serious
 4 – Severe *Chronic health effect

NFPA Hazard ID



Flammability
 Health
 Reactivity
 Special Hazard

Hazard rating:
 0 – Minimal
 1 – Slight
 2 – Moderate
 3 – Serious
 4 – Severe

Issue Date: 05/26/2015
Version #: 1.0
Source of information: Internal company data, suppliers and other publicly available resources.
Further Information: Contact supplier (see Section 1)
Disclaimer:

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate, but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.